



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 10/734,731 Confirmation No. : 6798
First Named Inventor : Eberhard WIELE
Filed : December 15, 2003
TC/A.U. : 1647
Examiner : C. J. Nichols
Docket No. : 029310.52995US
Customer No. : 23911
Title : Screening Method Using Bnpi and Dnpi

**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 AND 1.98**

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached Form PTO-1449 and/or listed herein and which the Examiner may deem relevant to patentability of the claims of the above-identified application.

STATEMENT OF RELEVANCE

The relevance of these references to the subject matter of the present invention is given in the specification of the present invention.

The present Information Disclosure Statement is being filed without a Certification under 37 C.F.R. § 1.97(e) after the later of three months from the application's filing date and the mailing date of the first Office Action on the merits, but before a Final Office Action or Notice of Allowance (whichever is earlier), and therefore a check for the fee of \$180.00 under 37 C.F.R. § 1.17(p) is attached. Please charge any necessary fee or credit any overpayment in

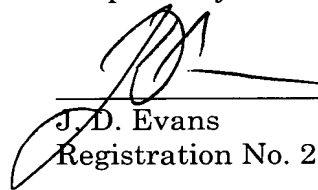
connection with this Information Disclosure Statement to Deposit Account No. 05-1323.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

If necessary, the paper should be considered as a petition for consideration of the Information Disclosure Statement under 37 C.F.R. § 1.97(d)(2) and that the petition fee set forth in 37 C.F.R. § 1.17(i) in accordance with 37 C.F.R. § 1.97(d)(3) should be charged to Deposit Account 05-1323, Attorney Docket No.: 029310.52995US.

Respectfully submitted,

April 13, 2005



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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known	
		Application Number	10/734,731
		Filing Date	December 15, 2003
		First Named Inventor	Eberhard Weihe
		Art Unit	1647
Sheet 1 of 7	Examiner Name	C. J. Nichols	
		Attorney Docket Number	029310.52995US

U.S. PATENT DOCUMENTS					
Examiner Initials [*]	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	US- 5,262,311	11-16-1993	Arthur B. Pardee et al.	
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials [*]	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				
	AB	WO 96/34288	10-31-1996	Eli Lilly and Company		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials [*]	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AC	DAVID BAUER ET AL., "Identification of Differentially Expressed mRNA Species by an Improved Display Technique (DDRT-PCR)", Nucleic Acids Research, 1993, pp. 4272-4280, Vol. 21, No. 18, Oxford University Press	
	AD	CHIH-CHENG CHEN ET AL., "A P2X Purinoceptor Expressed by a Subset of Sensory Neurons", Letters to Nature, October 5, 1995, pp. 428-431, Vol. 377	
	AE	C.E. FIALLOS-ESTRADA ET AL., "Long-Lasting Increase of Nitric Oxide Synthase Immunoreactivity, NADPH-Diaphorase Reaction and c-JUN Co-Expression in Rat Dorsal Root Ganglion Neurons Following Sciatic Nerve Transection", Neuroscience Letters, 1993, pp. 169-173, 150, Elsevier Scientific Publishers Ireland Ltd.	
	AF	V. HÖLLT ET AL., "Prodynorphin Gene Expression is Enhanced in the Spinal Cord of Chronic Arthritic Rats", Neuroscience Letters, 1987, pp. 90-94, Vol. 73, Elsevier Scientific Publishers Ireland Ltd.	

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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	AG	JI RU-RONG, "Expression of μ -, δ -, and κ -Opioid Receptor-Like Immunoreactivities in Rat Dorsal Root Ganglia after Carrageenan-Induced Inflammation", The Journal of Neuroscience, December 1995, pp. 8156-8166, Vol. 15, No. 12, 1995, Society for Neuroscience	
	AH	KEIKO MAEKAWA, "Expression of μ - and κ - but not δ -, Opioid Receptor mRNAs is Enhanced in the Spiral Dorsal Horn of the Arthritic Rats, Pain, 1995, pp. 365-371, Vol. 64, Elsevier Science B.V.	
	AI	ABDI A. MOHIT ET AL., "p49 ^{3F12} Kinase: A Novel MAP Kinase Expressed in a Subset of Neurons in the Human Nervous System", Neuron, January 1995, pp. 67-78, Vol. 14, Cell Press	
	AJ	M.A. RUDA ET AL., "In situ Hybridization Histochemistry and Immunocytochemistry Reveal an Increase in Spinal Dynorphin Biosynthesis in a Rat Model of Peripheral Inflammation and Hyperalgesia", Neurobiology, January 1988, pp. 622-626, Vol. 85, Proc. Natl. Acad. Sci., USA	
	AK	VALERIE M.K. VERGE ET AL., "Marked Increase in Nitric Oxide Synthase mRNA in Rat Dorsal Root Ganglia after Peripheral Axotomy: In situ Hybridization and Functional Studies", Neurobiology, December 1992, pp. 11617-11621, Vol. 89, Proc. Natl. Acad. Sci., USA	
	AL	ANDREW F. WILKS, "Two Putative Protein-Tyrosine Kinases Identified by Application of the Polymerase Chain Reaction", Genetics, March 1989, pp. 1603-1607, Vol. 86, Proc. Natl. Acad. Sci., USA	
	AM	X. ZHANG ET AL., "Marked Increase in Cholecystokinin B Receptor Messenger RNA Levels in Rat Dorsal Root Ganglia After Peripheral Axotomy", Neuroscience, 1993, pp. 227-233, Vol. 57, No. 2, Pergamon Press Ltd., Great Britain	
	AN	ARMEN N. AKOPIAN ET AL., "A Tetrodotoxin -Resistant Voltage-Gated Sodium Channel Expressed by Sensory Neurons", Letters to Nature, January 18, 1996, pp. 257-262, Vol. 379	

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	AO	DOMINIQUE BESSE ET AL., "Monoarthritis Induces Complex Changes in μ -, δ -, and κ -Opioid Binding Sites in the Superficial Dorsal Horn of the Rat Spinal Cord", European Journal of Pharmacology, 1992, pp. 123-131, Vol. 223, Elsevier Science Publishers B.V.	
	AP	TERENCE J. CODERRE ET AL., "Contribution of Central Neuroplasticity to Pathological Pain: Review of Clinical and Experimental Evidence", Pain, 1993, pp. 259-285, 52, Elsevier Science Publishers B.V.	
	AQ	DAVID DUBUISSON ET AL., "The Formalin Test: A Quantitative of the Analgesic Effects of Morphine, Meperidine, and Brain Stem Stimulation in Rats and Cats", Pain, 1977, pp. 161-174, Vol. 4, Elsevier/North-Holland Biomedical Press	
	AR	TATSUO FURUKAWA ET AL., "Identification of New Genes Expressed in a Human Erythroleukemia Cell Line", Blood Cells, Molecules and Diseases, 1996, pp. 11-22, Vol. 22, No. 2, Blood Cells Foundation. LaJolla, California, USA	
	AS	BRIAN E. HAWES ET AL., "Nociceptin (ORL-1) and μ -Opioid Receptors Mediate Mitogen-Activated Protein Kinase Activation in CHO Cells Through a G _i - Coupled Signaling Pathway: Evidence for Distinct Mechanisms of Agonist-Mediated Desensitization", Journal of Neurochemistry, 1998, pp. 1024-1033, Vol. 71, No. 3, Lippincott-Raven Publishers, Philadelphia, PA, USA	
	AT	M. HUBANK ET AL., "Identifying Differences in mRNA Expression by Representational Difference Analysis of cDNA", Nucleic Acids Research, 1994, pp. 5640-5648, Vol. 22, No. 25	
	AU	SVEN KLUSSMANN ET AL., "Mirror-Image RNA that Binds D-Adenosine", Nature Biotechnology, September 1996, pp. 1112-1115, Vol. 14	
	AV	LING-YUAN LI ET AL., "The Stimulatory Effect of Opioids on Mitogen-Activated Proteins Kinase in Chinese Hamster Ovary Cells Transfected to Express μ -Opioid Receptors", Molecular Pharmacology, pp. 599-602, Vol. 50, The American Society of Pharmacology and Experimental Therapeutics	

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	AW	AXEL METHNER ET AL., "A Novel G Protein-Coupled Receptor with Homology to Neuropeptide and Chemoattractant Receptors Expressed During Bone Development", Biochemical and Biophysical Research Communications, 1997, pp. 336-342, Vol. 233, No. 2, Article No. RC976455, Academic Press	
	AX	K. NOGUCHI ET AL., "Gene Regulation in an Ascending Nociceptive Pathway: Inflammation-Induced Increase in Preprotachykinin mRNA in Rat Lamina I Spinal Projection Neurons", The Journal of Neuroscience, July 1992, pp. 2563-2572, Vol. 12, No. 7, Society for Neuroscience	
	AY	A. SOLODKIN ET AL., "Unilateral Hindpaw Inflammation Produces a Bilateral Increase in NADPH-Diaphorase Histochemical Staining in the Rat Lumbar Spinal Cord", Neuroscience, 1992, pp. 495-499, Vol. 51, No. 3, Pergamon Press Ltd., Great Britain	
	AZ	JACKSON S. WAN ET AL., "Cloning Differentially Expressed mRNA's", Nature Biotechnology, December 1996, pp. 1685-1691, Vol. 14	
	BA	M. ZIMMERMANN ET AL., "Plasticity of the Nervous System at the Systemic, Cellular and Molecular Levels: a Mechanism of Chronic Pain and Hyperalgesia", Progress in Brain Research, 1998, pp. 233-259, Vol. 110, Chapter 18, Elsevier Science B.V.	
	BB	HIROSHI BABA ET AL., "Peripheral Inflammation Facilitates A β Fiber-Mediated Synaptic Input to the Substantia Gelatinosa of the Adult Rat Spinal Cord", The Journal of Neuroscience, January 15, 1999, pp. 859-867, Vol. 19, No. 2, Society for Neuroscience	
	BC	JAMES A. BONINI ET AL., "Molecular Cloning and Tissue Expression of a Novel Orphan G Protein-Coupled Receptor from Rat Lung", Biochemical and Biophysical Research Communications, 1997, pp. 190-193, Vol. 234, No. 1, Article No. RC976591, Academic Press	

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	BD	ANTHONY DICKENSON, "Novel Pharmacological Targets in the Treatment of Pain", Pain Reviews, 1995, pp. 1-12, Vol. 2	
	BE	F. GILLADRON ET AL., "Long Term Increase in CGRP Levels in Rat Spinal Dorsal Horn Following Skin Ultraviolet Irradiation", 1992, pp. 493-496	
	BF	THOMAS HERDEGEN ET AL., "Expression of Nitric Oxide Synthase and Colocalisation with Jun, Fos and Krox Transcription Factors in Spinal Cord Neurons Following Noxious Stimulation of the Rat Hindpaw", Molecular Brain Research, 1994, pp. 245-258, Vol. 22, Elsevier Science B.V.	
	BG	STEPHEN P. HUNT ET AL., "Induction of c-fos- Like Protein in Spinal Cord Neurons Following Sensory Stimulation", Nature, August 1987, pp. 632-634, Vol. 328	
	BH	L. KUS ET AL., "N-Methyl-D-Aspartate R1 Messenger RNA and [¹²⁵ I]MK-801 Binding Decrease in Rat Spinal Cord After Unilateral Hind Paw Inflammation", Neuroscience, 1995, pp. 159-165, Vol. 68, Elsevier Science Ltd., Great Britain	
	BI	PENG LIANG ET AL., "Differential Display of Eukaryotic Messenger RNA by Means of the Polymerase Chain Reaction", Science, August 14, 1992, pp. 967-971, Vol. 257	
	BJ	G.J. MICHAEL ET AL., "Nerve Growth Factor Treatment Increases Brain-Derived Neurotrophic Factor Selectivity in TrkA-Expressing Dorsal Root Ganglion Cells and in Their Central Terminations Within the Spinal Cord", The Journal of Neuroscience, November 1, 1997, pp. 8476-8490, Vol. 17, No. 21, Society for Neuroscience	
	BK	G.M.-C. POIRIER ET AL., "Screening Differentially Expressed cDNA Clones Obtained by Differential Display Using Amplified RNA", Nucleic Acids Research, 1997, pp. 913-914, Vol. 25, No. 4, Oxford University Press	
	BL	LAUREN SOMOPAYRAC ET AL., "Overcoming Limitations of the mRNA Differential Display Technique", Nucleic Acids Research, 1995, pp. 4738-4739, Vol. 23, No. 2, Oxford University Press	
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	BM	VICTOR E. VELCULESCU ET AL., "Serial Analysis of Gene Expression", Science, October 20, 1995, pp. 484-487	
	BN	JOSEPH B. WATSON ET AL., "Differential cDNA Screening Strategies to Identify Novel Stage-Specific Proteins in the Developing Mammalian Brain", Dev. Neurosci., 1993, pp. 77-86, Vol. 15	
	BO	CLIFFORD J. WOOLF ET AL., "Peripheral Nerve Injury Triggers Central Spouting of Myelinated Afferents", Nature, January 2, 1992, pp. 75-78, Vol. 355	
	BP	YASUO AIHARA ET AL., "Molecular Cloning of a Novel Brain-Type Na ⁺ -Dependent Inorganic Phosphate Cotransporter", Journal of Neurochemistry, 2000, pp. 2622-2625, Vol. 74, No. 6, Lippincott Williams & Wilkins Inc., Philadelphia, PA, USA	
	BQ	P.G. GUNASEKAR ET AL., "NMDA Receptor Activation Produces Concurrent Generation of Nitric Oxide and Reactive Oxygen Species: Implication for Cell Death", Journal of Neurochemistry, 1995, pp. 2016-2021, Vol. 65, No. 5, Lippincott-Raven Publishers, Philadelphia, PA, USA	
	BR	JOHN D. LEVINE ET AL., "Intraneuronal Substance P Contributes to the Severity of Experimental Arthritis", Science, November 2, 1984, pp. 547-549	
	BS	YUN FENG ET AL., "Cloning of a Novel Member of the G Protein-Coupled Receptor Family Related to Peptide Receptors ¹ ", Biochemical and Biophysical Research Communications, 1997, pp. 651-654, Vol. 231, No. 3, Article No. RC976161, Academic Press	
	BT	OSAMU URAYAMA ET AL., "Coincident Induction of K rev -1/rap 1A, rap 1B and H-ras mRNAs in the Rat Spinal Cord by Noxious Stimulation ^{1,2} ", Molecular Brain Research, 1997, pp. 331-334, Vol. 45, Elsevier Science B.V.	
	BU	T.R. TÖLLE ET AL., Cellular and Subcellular Distribution of NMDAR1 Splice Variant mRNA in Rat Lumbar Spinal Cord Neurons:, 1982, p. S135	

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